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### **[1. 8.4.6D: Low-Cost High Frequency Passive Microwave Radiometer for Ground Measurements](#)**

Release Date: 11-16-2011Open Date: 11-16-2011Due Date: 02-01-2012Close Date: 02-01-2012

Passive microwave sensors are key sensor payloads on many operational satellites, including those operated by NOAA and EUMETSAT – the Advanced Microwave Sounding Unit (AMSU) and the Microwave Humidity Sounder (MHS). Over the past decade, satellite-based high frequency measurements at and above 150 GHz (including those near the 183 GHz water vapor absorption band) have become extremely useful fo ...

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### **[2. 8.4.7D: Enhanced Geospatial Query Support for Oceanic Data Discovery](#)**

Release Date: 11-16-2011Open Date: 11-16-2011Due Date: 02-01-2012Close Date: 02-01-2012

This subtopic focuses on development of a web service to transform a rich textual description of a geographic area into a geospatial object such as a polygon or set of polygons. This new capability will greatly enhance ease of use as well as improve people's success in locating geospatial data. The initial domain is oceanic geospatial data at the NOAA National Data Centers (Oceanographic, Geophy ...

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### [3. 11.1-001: Development of commercial hand-held and backpack neutron detectors](#)

Release Date: 06-13-2011Open Date: 06-15-2011Due Date: 07-18-2011Close Date: 07-18-2011

OBJECTIVE: Develop and commercialize neutron detector with matured technology to replace existing <sup>3</sup>He-based thermal or fast neutron detectors for portable (hand-held and backpack) radioisotope identification devices, and active interrogation systems. DESCRIPTION: The Department of Homeland Security Domestic Nuclear Detection Office (DNDO) is developing new materials and technology for thermal and ...

SBIR Domestic Nuclear Detection Office

### [4. 11.1-002: Flexible Form Factor Radiation Monitor](#)

Release Date: 06-13-2011Open Date: 06-15-2011Due Date: 07-18-2011Close Date: 07-18-2011

OBJECTIVE: Develop a radiation sensor to support search operations that has a variable or flexible form factor than current systems. The device(s) should be more sensitive, lower-cost, more be specific than current COTS approaches. DESCRIPTION: Certain scenarios involving the search or surveillance for nuclear or radiological materials of concern are best accomplished with a radiation monitoring d ...

SBIR Domestic Nuclear Detection Office

### [5. 11.I-003: Growth & Characterization of New, Promising Advanced Scintillator Materials](#)

Release Date: 06-13-2011Open Date: 06-15-2011Due Date: 07-18-2011Close Date: 07-18-2011

OBJECTIVE: Growth and characterization of single crystals of selected new scintillator materials which have been identified, through prior R&D program efforts, as being promising advanced materials with potential of high energy resolution, high efficiency, ease of growth of large size crystals, and low cost. Objective of this effort is to grow large enough crystals to enable characterization of en ...

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